

## Karnal Bunt Survey Work Plan - Calendar Year 2012

|                                |   |   |                          |
|--------------------------------|---|---|--------------------------|
| <b>Cooperator:</b>             | Kansas Department of Agriculture  |   |                          |
| <b>State:</b>                  | Kansas  |   |                          |
| <b>Project:</b>                | Karnal Bunt   |   |                          |
| <b>Project funding source:</b> | Priority Survey <input type="checkbox"/><br>State Discretionary Survey <input type="checkbox"/><br>Other Line Item Pest <input checked="" type="checkbox"/> |   |                          |
| <b>Project Coordinator:</b>    | Laurinda Ramonda  |   |                          |
| <b>Agreement Number</b>        | 12-8453-1227-CA   |   |                          |
| <b>Contact Information:</b>    | <b>Address:</b>   | PO Box 19282, Forbes Field, Bldg 282,<br>Topeka, Kansas 66619 |                          |
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This Work Plan reflects a cooperative relationship between the the Kansas Department of Agriculture (KDA) (the Cooperator) and the United States Department of Agriculture (USDA), Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ). It outlines the mission-related goals, objectives, and anticipated accomplishments as well as the approach for conducting a Karnal Bunt survey and control program and the related roles and responsibilities of the Kansas Department of Agriculture and USDA-APHIS-PPQ as negotiated.

### I) OBJECTIVES AND NEED FOR ASSISTANCE

The objective of this project is to ensure the ability to export Kansas wheat to foreign customers by collecting Kansas wheat grain samples as part of the National Karnal Bunt Survey (*Tilletia indica*). This survey will also provide information to the IPHIS database and provide pest freedom assurance to our customers.

This is a national survey and benefits the nation in the exportation of wheat. This survey cannot be implemented without the funds provided by USDA-APHIS-PPQ.

### II) RESULTS OR BENEFITS EXPECTED

**The Cooperator seeks to conduct a program which is expected to result in:**

#### A. What results or benefits will be derived from the cooperative effort?

- The ability to continue to export Kansas grown wheat for the success of the states' wheat industry.
- Provide survey data for Karnal Bunt in Kansas keeping the markets open for Kansas wheat producers.
- Keep Karnal Bunt from becoming established in Kansas.
- Provide early detection and a rapid response for the most cost effective means to protect the vital wheat industry.
- Provide additional geographic assessment from data gathered.

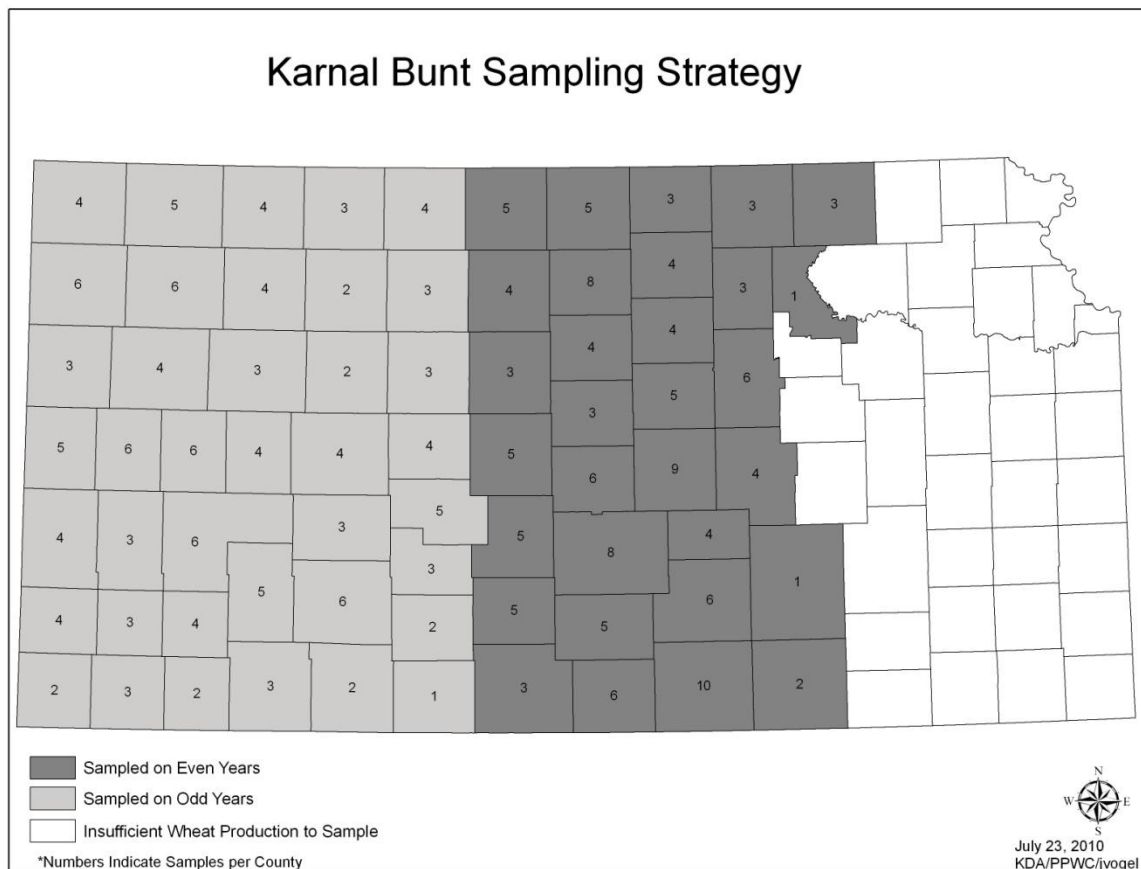
### III) APPROACH

#### What is the plan of action or approach to the work?

Wheat samples will be taken from the central counties of Kansas in even years and from the western counties in odd years from grain storage facilities. Every 2 years samples will have been taken from the wheat producing two-thirds of the state. The eastern counties will not be sampled due to very little wheat being planted in that part of the state.

| ODD YEARS            |              |
|----------------------|--------------|
| COUNTY               | # OF SAMPLES |
| Cheyenne             | 4            |
| Clark                | 2            |
| Comanche             | 1            |
| Decatur              | 4            |
| Edwards              | 3            |
| Ellis                | 3            |
| Finney               | 6            |
| Ford                 | 6            |
| Gove                 | 3            |
| Graham               | 2            |
| Grant                | 3            |
| Gray                 | 5            |
| Greeley              | 5            |
| Hamilton             | 4            |
| Haskell              | 4            |
| Hodgeman             | 3            |
| Kearney              | 3            |
| Kiowa                | 2            |
| Lane                 | 4            |
| Logan                | 4            |
| Meade                | 3            |
| Morton               | 2            |
| Ness                 | 4            |
| Norton               | 3            |
| Pawnee               | 5            |
| Phillips             | 4            |
| Rawlins              | 5            |
| Rooks                | 3            |
| Rush                 | 4            |
| Scott                | 6            |
| Seward               | 2            |
| Sheridan             | 4            |
| Sherman              | 6            |
| Stanton              | 4            |
| Stevens              | 3            |
| Thomas               | 6            |
| Trego                | 2            |
| Wallace              | 3            |
| Wichita              | 6            |
| <b>TOTAL SAMPLES</b> | <b>146</b>   |

| EVEN YEARS           |              |
|----------------------|--------------|
| COUNTY               | # OF SAMPLES |
| Barber               | 3            |
| Barton               | 5            |
| Butler               | 1            |
| Clay                 | 3            |
| Cloud                | 4            |
| Cowley               | 2            |
| Dickinson            | 6            |
| Ellsworth            | 3            |
| Harper               | 6            |
| Harvey               | 4            |
| Jewell               | 5            |
| Kingman              | 5            |
| Lincoln              | 4            |
| Marion               | 4            |
| Marshall             | 3            |
| McPherson            | 9            |
| Mitchell             | 8            |
| Osborne              | 4            |
| Ottawa               | 4            |
| Pratt                | 5            |
| Reno                 | 8            |
| Republic             | 3            |
| Rice                 | 6            |
| Riley                | 1            |
| Russell              | 3            |
| Saline               | 5            |
| Sedgwick             | 6            |
| Smith                | 5            |
| Stafford             | 5            |
| Sumner               | 10           |
| Washington           | 3            |
| <b>TOTAL SAMPLES</b> | <b>143</b>   |



Kansas will take samples using national survey protocols. Samples will be forwarded to USDA-APHIS-PPQ in Olney, Texas for processing and analysis. Sampling will be done by the Kansas Department of Agriculture and will begin at the onset of harvest and be completed within three weeks after harvests end. Costs are explained in the financial plan.

#### **A. The Cooperator and APHIS Mutually Agree to/that:**

- Maintain a State Cooperative Agricultural Pest Survey (CAPS) Committee that will meet at least once a year for input on surveys and how to improve the CAPS program and surveys.
- Work together in carrying out field surveys, trapping, identification and data collection on pests, diseases or weeds that may pose an immediate risk to the agriculture of Kansas or the United States.
- Utilize Cooperator and APHIS program funding, as outlined in the Financial Plan, within the authorized parameters to support survey, detection and CAPS objectives.

#### **1. What is the quantitative projection of accomplishments to be achieved?**

- a. **By activity or function, what are the anticipated accomplishments by month, quarter, or other specified intervals?**

- Sampling, following the preceding table, will begin at the onset of harvest and be completed within three weeks after harvests end.
- Wheat samples are sent to Olney, Texas when boxes are full or when sampling is complete.
- Karnal Bunt survey data will be entered into IPHIS within 2 weeks when results are received from the Olney lab or within 48 hours of a positive identification.

**b. What criteria will be used to evaluate the project? What are the anticipated results and successes?**

- All data collected and entered into the IPHIS database.
- State CAPS and KDA meetings to keep updated on issues.
- Wheat is being exported successfully to countries with restrictions.

**c. What methodology will be used to determine if:**

**1. Identified needs are met:**

- Survey completed in timeframe specified.

**2. Results and benefits are achieved**

- Review of the IPHIS database to ensure that data from the pest detection activities have been entered.
- State CAPS, KDA and SPHD, SPRO, PSS, SSC meetings to keep updated on issues.
- Review of the accomplishment reports, supporting outreach materials (if applicable), and maps.

**2. What type of data will be collected and how will it be maintained?**

**a. Address timelines for collection and recording of data.**

- All survey data from cooperative agreements involving pest survey will be entered by the State Survey Coordinator or KDA staff into the IPHIS database to include but not limited to observation number, observation date, agency doing survey, state/county, site, pest, pest status and survey method.

The data entry requirements are:

- Enter new national, state, and county records into IPHIS database within 48 hours of confirmation of a pest or pathogen identification by a recognized identifier.
- Non-time sensitive records, including negative data, must be entered into IPHIS within 2 weeks of confirmation.
- Negative data will be entered within 2 weeks of decommissioning a trap, obtaining the results from an identifier, or performing a laboratory assay.

- Survey data will be collected with GPS technology for internal pathway analyses. Survey maps will be developed from approved GIS mapping software.

**b. How will APHIS be provided access to the data?**

- Complete, accurate, and timely pest survey data will be entered into IPHIS using approved protocol and accessible.
- Semi-annual and annual survey reports.

**B. The Cooperator will:**

- Sample using national survey protocols.
- Sample using KDA staff.
- Send samples to USDA-APHIS-PPQ Olney, Texas laboratory to be analyzed.
- Begin sampling at onset of harvest and complete sampling by three weeks after harvest ends.

**1. By function, what work is to be accomplished?**

- One hundred forty-three samples being taking in 2012 using national survey protocols.
- Send samples to USDA-APHIS-PPQ Olney, Texas laboratory to be analyzed.
- Survey data on pests will be entered into IPHIS database when pest identification is confirmed.
- All data will be entered into IPHIS when it becomes available.

**2. What resources are required to perform the work?**

- KDA staff to take wheat samples.
- Rental vehicles will be used because of a shortage of state vehicles to acquire samples at grain cooperatives.
- Office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include digital camera, GPS unit and computer with internet service. Computers will be used for entering survey data into the state survey database and IPHIS database.

**3. What numbers and types of personnel will be needed and what will they be doing?**

- KDA staff will collect wheat samples from grain elevators.

**4. What equipment will be needed to perform the work? Include major items of equipment with a value of \$5,000 or more.**

**a. What equipment will be provided by the cooperator? N/A**

- b. **What equipment will be provided by APHIS?** N/A
  - c. **What equipment will be purchased in whole or in part with APHIS funds?**  
N/A
  - d. **How will the equipment be used?** N/A
  - e. **What is the proposed method of disposition of the equipment upon termination of the agreement/project?** N/A
- 5. Identify information technology equipment, e.g., computers, and their ancillary components.**
- Provided by KDA, office space with associated services and utilities, computers and other office equipment for the use of Cooperator personnel. These include digital camera, GPS unit, PDA and computer with internet service. PDA's and GPS units are provided through Infrastructure.
- 6. What supplies will be needed to perform the work?**
- Sample bottles, paper bags, plastic bags, tape, boxes, cups and office supplies (i.e. pens, rubber bands, markers) are required for sampling.
  - Fuel for rental vehicle
- a. **What supplies will be provided by the Cooperator?** N/A
  - b. **What supplies will be provided by APHIS?** N/A
  - c. **What supplies will be purchased in whole or in part with APHIS funds?**
    - Sample bottles, paper bags, plastic bags, tape, shipping boxes, cups and office supplies (i.e. pens, rubber bands, markers) used for sampling.
    - Fuel for rental vehicles
  - d. **How will the supplies be used?**
    - Sampling and shipping samples to lab.
  - e. **What is the proposed method of disposition of the supplies with an accumulative value over \$5,000 upon termination of the agreement/project?**  
N/A
- 7. What procurements will be made in support of the funded project and what is the method of procurement (e.g., lease, purchase)?**
- Sample bottles, paper bags, plastic bags, tape, shipping boxes, cups and office supplies (i.e. pens, rubber bands, markers) used for sampling.

- The Fiscal Department at the Kansas Department of Agriculture will provide contracts.
- Most procurements will be made by purchase orders.
- Some procurements will be made by reimbursable personal purchase.

**8. What are the travel needs for the project?**

**a. Is there any local travel to daily work sites? Who is the approving official? What are the methods of payment? Indicate rates and total costs in the Financial Plan.**

- Travel will be required to survey sites by use of a rental vehicle. A rental vehicle is used because of a shortage of state vehicles.
- The KDA Plant Protection and Weed Control Plant Program Manager is the approving official.
- Payments are by purchase order.
- Some procurements will be made by reimbursable personal purchase.
- Costs are included in the financial plan.

**b. What extended or overnight travel will be performed (number of trips, their purpose, and approximate dates). Who is the approving official?**

- Lodging will be required for longer distance sampling.
- Travel will occur with the onset of wheat harvest until sampling complete.
- The KDA Plant Protection and Weed Control Plant Program Manager is the approving official.
- Costs are included in the financial plan.

**c. What is the method of payment? Indicate rates and total cost in the Financial Plan.**

- Payments are done by purchase order.
- Some procurements will be made by reimbursable personal purchase.
- Costs are included in the financial plan.

**9. Reports:**

**a. All reports to the APHIS Authorized Department Officer's Designated Representative (ADODR). Reports include:**

1. Narrative accomplishment reports in the frequency and time frame specified in the Notice of Award, Article 4.
2. Federal Financial Reports, SF-425 (replaces SF-269 October 1, 2009) in the frequency and time frame specified in the Notice of Award, Article 4.

**10. Are there any other contributing parties who will be working on the project?**

**a. List Participating Agency/Institution:**

- KDA
- Kansas grain cooperatives/storage facilities
- Wheat Commission
- Kansas Agriculture Retailers Association
- Coop Council
- USDA Olney Lab

**b. List all who will work on the project:**

- KDA - staff
- USDA-APHIS-PPQ

**c. Describe the nature of their effort:**

- KDA – sampling.
- USDA-APHIS-PPQ - pest identification.

**d. Contribution:**

- KDA – survey and data collection.
- USDA-APHIS-PPQ – wheat diagnostics and pest identification.

**C. APHIS Will:**

**1. Outline the Agency's (USDA APHIS PPQ) substantial involvement.**

**a. Include any significant Agency collaboration and participation**

- Provide any new information that becomes available on Karnal Bunt.
- Provide funds to the Cooperator to cover costs outlined in the Financial Plan.
- Make identification at Olney, Texas Lab.

**b. Project oversight and performance management**

- Review of data results submitted to approved database.
- Submit accomplishment reports to region.

**2. What equipment will be needed to perform the work? Include major items of equipment with a value of \$5,000 or more.**

**a. Will Equipment be loaned or provided by APHIS? ☐ Yes ☒ No (If Yes, please list:**

**b. How will the equipment be used? N/A**

**IV) GEOGRAPHIC LOCATION OF PROJECT**

**A. Is the project statewide or in specific counties, townships, and/or national or state parks?**



In 2012, the central counties of Kansas will have wheat sampled: Barber, Barton, Butler, Clay, Cloud, Cowley, Dickinson, Ellsworth, Harper, Harvey, Jewell, Kingman, Lincoln, Marion, Marshall, McPherson, Mitchell, Osborne, Ottawa, Pratt, Republic, Rice, Riley, Reno, Russell, Saline, Sedgwick, Smith, Stafford, Sumner and Washington counties.

**B. What type of terrain (e.g., cropland, rangeland, woodland) will be involved in the project?**

County grain cooperatives and storage facilities.

**C. Are there any unusual features which may have an impact on the project or activity such as rivers, lakes, wild life sanctuaries, commercial beekeepers etc? (list all that apply)** Weather conditions and cooperation of grain cooperators to acquire wheat samples.

**D. Identify the kind of data to be collected:**

- The kinds of data to be collected will include, but not limited to, observation number, observation date, agency doing survey, state/county, site, pest, pest status and survey method.

**E. Establish criteria to evaluate the results and successes of the project:**

**1. Results:**

- Pest detection survey activities for the project completed.
- All data collected from the pest detection survey is entered into the IPHIS database.
- State CAPS and KDA meetings to keep updated on issues.

**1. Successes:**

- Survey completed within timeframe specified.

**F. Methodology used to determine if the results and benefits are achieved:**

**1. Identified needs are met:**

- Survey completed in timeframe specified.

**2. Results and benefits are achieved:**

- Review of the IPHIS database to ensure that data from the pest detection activities have been entered.
- Review the accomplishment reports, supporting outreach materials (if applicable), and maps.
- State CAPS and KDA meetings to keep updated on issues.

## V) DATA COLLECTION AND MAINTENANCE

Each State is responsible for entering complete, accurate, and timely pest survey data into an approved database using approved protocol. CAPS funds may be used to purchase and maintain the required equipment to ensure this occurs.

## VI) TAXONOMIC SUPPORT

A. Person or Institution that will screen targets (Name & Contact Information)

OR

B. ☒ Request for taxonomic support.

Olney Texas Lab  
USDA-APHIS-PPQ  
220 East Main  
Olney, TX 76374  
940-564-4192

## VII) SIGNATURES

\_\_\_\_\_  
ROAR

\_\_\_\_\_  
Date

\_\_\_\_\_  
ADODR

\_\_\_\_\_  
Date

## Detailed Financial Plan

**PROJECT:** Karnal Bunt

**COOPERATOR NAME:** Kansas Department of Agriculture

**AGREEMENT NUMBER:** 12-8453-1227-CA

**TIME PERIOD:** January 1, 2012-December 31, 2012

Financial Plan must match the SF-424A, Section B, Budget Categories

| ITEM   | APHIS FUNDS    | COOPERATOR FUNDS<br>(Show even if zero) | TOTAL           |
|--|----------------|---|-----------------|
| <b>PERSONNEL:</b>  |                |   |                 |
| KDA staff 196 hours @ \$25/hr  | \$2,450        | \$2,450                                 | \$4,900         |
| <b>Subtotal</b>  | <b>\$2,450</b> | <b>\$2,450</b>                          | <b>\$4,900</b>  |
| <b>FRINGE BENEFITS:</b>  |                |   |                 |
| 22% of salary of permanent employees   | \$539          | \$539                                   | \$1,078         |
| <b>Subtotal</b>  | <b>\$539</b>   | <b>\$539</b>                            | <b>\$1,078</b>  |
| <b>TRAVEL:</b>   |                |   |                 |
| Lodging 14 nights @ \$85/night   | \$1,190        | 0                                       | \$1,190         |
| Meals for overnight travel @ \$43/day x 28 days  | \$1,204        | 0                                       | \$1,204         |
| Vehicle rental 4 weeks @ \$350/week-pickup truck for KDA staff (shortage in state vehicles) ** | \$1,400        | 0                                       | \$1,400         |
| <b>Subtotal</b>  | <b>\$3,794</b> | <b>0</b>                                | <b>\$3,794</b>  |
| <b>EQUIPMENT:</b>  | <b>0</b>       | <b>0</b>                                | <b>0</b>        |
| <b>Subtotal</b>  | <b>0</b>       | <b>0</b>                                | <b>0</b>        |
| <b>SUPPLIES:</b>   |                |   |                 |
| Boxes, sample bottles, plastic bags, tape, paper bags, cups, office supplies                   | \$650          | 0                                       | \$650           |
| Fuel 7,100 miles/15mpg x \$3.75 per gallon-for rental vehicles**                               | \$1,775        | 0                                       | \$1,775         |
| <b>Subtotal</b>  | <b>\$2,425</b> | <b>0</b>                                | <b>\$2,425</b>  |
| <b>CONTRACTUAL:</b>  | <b>0</b>       | <b>0</b>                                | <b>0</b>        |
| <b>Subtotal</b>  | <b>0</b>       | <b>0</b>                                | <b>0</b>        |
| <b>OTHER:</b>  | <b>0</b>       | <b>0</b>                                | <b>0</b>        |
| <b>Subtotal</b>  | <b>0</b>       | <b>0</b>                                | <b>0</b>        |
| <b>TOTAL DIRECT COSTS</b>  | <b>\$9,208</b> | <b>\$2,989</b>                          | <b>\$12,197</b> |
| <b>INDIRECT COSTS (21.80% on Total Direct Cost of salary and fringe benefits)*</b>             | <b>\$652</b>   | <b>\$652</b>                            | <b>\$1,304</b>  |

|                                 |                |                |                 |
|---------------------------------|----------------|----------------|-----------------|
| <b>TOTAL</b>                    | <b>\$9,860</b> | <b>\$3,641</b> | <b>\$13,501</b> |
|                                 |                |                |                 |
| <b>Cost Share Information**</b> | <b>73%</b>     | <b>27%</b>     |                 |

\* Kansas' Negotiated Cost Rate (Salary + Fringe Benefits x %=Indirect Cost)

\*\* There is a shortage of state vehicles. We give the option of renting a vehicle or using personally owned vehicles. If renting we pay for the fuel and if a personal vehicle is used we pay mileage.